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Motor Aspirated Radiation Shield 8190 Series



- Virtually Maintenance Free
- Heavy Duty
- Reliable

Overview

The 8190 Series Motor Aspirated Radiation Shields (MARS), manufactured by AWI, provide protected mounting for temperature and humidity probes, shielding them from direct solar heating and precipitation contact. The 8190 series are virtually maintenance-free radiation shields constructed of heavy-duty, non-corrosive polymer, and featuring a reliable, long-life 12 VDC fan for continuous aspiration. Each MARS accommodates one probe: a temperature probe, a humidity probe, or a combination temperature/humidity probe. All cable terminations to the MARS are made through weatherproof connectors mounted on the enclosure.

SENSORS

SPECIFICATIONS

Parameter	Specification
Operating Temperature Range	-40°C to +55°C
Radiation Error	0.5°F @ 12 VDC and 1000 W/m ² solar radiation
Air Flow	360 ft./min. @ 12 VDC
Fan Life	70,000 h @ 40°C
Power	8–15 VDC

ORDERING INFORMATION

Part Number	Description
8190-01	Motor Aspirated Radiation Shield (Corrosion Resistant)
8190-02	Motor Aspirated Radiation Shield (Adapted for -60° to +60°C temp probe.)
8190-03	Motor Aspirated Radiation Shield (modified for use with a frangible tower)

DIMENSIONS & WEIGHTS

Size	42" x 13.5" x 6" (107 cm x 35 cm x 15 cm)
Weight	10 lb (4.6 kg)
Shipping Dimensions	48" x 19" x 8" (122 cm x 48.3 cm x 20.3 cm)
Shipping Weight	21 lb (9.53 kg)



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